

Subst. Form PTO-1449 APPLICANT'S INFORMATION DISCLOSURE STATEMENT	Atty. Docket No.: 22727/04130	Serial No.: 10/617,979
	Applicant: Henkin, et al.	
	Filing Date: July 11, 2003	Group:

U.S. PATENT DOCUMENTS

Initial*		Document No.	Date	Name	Class	Subcl.	Filing Date
	AA						
	AB						
	AC						
	AD						

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subcl.	Translation?
	AE						
	AF						
	AG						
	AH						
	AI						

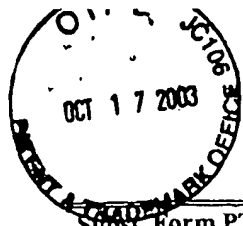
OTHER PRIOR ART

SW	AJ	Grundy, et al., "The T box and S box transcription termination systems", The Ohio State University, 1 page.
	AK	Grundy, et al., "tRNA-mediated transcription antitermination <i>in vitro</i> : Codon-anticodon pairing independent of the ribosome", PNAS, August 20, 2002, vol. 99, no. 17, pp. 11121-11126.
SW	AL	Gerdeman, et al., "Solution Structure of the <i>Bacillus subtilis</i> T-box Antiterminator RNA: Seven Nucleotide Bulge Characterized by Stacking and Flexibility", J. Mol. Biol. (2003) 326, pp. 189-201.
	AM	Gerdeman, et al., "In Vitro structure-function studies of the <i>Bacillus subtilis</i> <i>tyrS</i> mRNA antiterminator: evidence for factor-independent tRNA acceptor stem binding specificity", Nucleic Acids Research, 2002, Vol. 30, No. 4, 1065-1072.
SW	AN	Yanofsky, "Transcription Attenuation: Once Viewed as a Novel Regulatory Strategy", Journal of Bacteriology, Jan. 2000, pp 1-8.
SW	AO	Göllnick et al., "Transcription attenuation", Biochimica et Biophysica Acta 1577 (2002) pp. 240-250.
SW	AP	Henkin, "Transcription termination control in bacteria", Current Opinion in Microbiology 2000, 3: pp. 149-153.
SW	AQ	Barbieri et al., "MicroCorrespondence", 1998 Blackwell Science Ltd., Molecular Microbiology, 29, pp. 661-664.
SW	AR	van de Guchte, et al., "Identity elements in tRNA-mediated transcription antitermination: implication of tRNA D- and T-arms in mRNA recognition", Microbiology (2001), 147, pp. 1223-1233.

Examiner:	Date Considered:
-----------	------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP 609; draw line through citation if in conformance and not considered. Include copy of this form with next communication to applicant.

/Samuel Woolwine/ (10/06/2006)



Subst. Form PTO-1449

Atty. Docket No.: 22727/04130

Serial No.: 10/617,979

APPLICANT'S INFORMATION
DISCLOSURE STATEMENT

Applicant: Henkin, et al.

Filing Date: July 11, 2003

Group:

U.S. PATENT DOCUMENTS

Initial*		Document No.	Date	Name	Class	Subcl.	Filing Date
	AA						
	AB						
	AC						
	AD						

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Subcl.	Translation?
	AE						
	AF						
	AG						
	AH						
	AI						

OTHER PRIOR ART

SW	AN S	Kunst, et al., "The complete genome sequence of the Gram-positive bacterium <i>Bacillus subtilis</i> ", Nature, Vol. 390, 20 November 1997, pp. 249-256.
SW	AK T	Grundy, et al., "Sequence requirements for terminators and antiterminators in the T box transcription antitermination system: disparity between conservation and functional requirements", Nucleic Acids Research 2002, Vol. 30, No. 7, pp. 1646-1655.
SW	AL U	Henkin, "Control of Transcription Termination in Prokaryotes," Annu. Rev. Genet. 1996, 30: pp. 35-57.
SW	AM V	Henkin, et al., "Regulation by transcription attenuation in bacteria: how RNA provides instructions for transcription termination/antitermination decisions", BioEssays 24: pp. 700-707.
SW	AN W	Grundy et al., "The <i>Staphylococcus aureus</i> <i>ileS</i> Gene, Encoding Isoleucyl-tRNA Synthetase, Is a Member of the T-Box Family", Journal of Bacteriology, June 1997, pp. 3767-3772.
	AO X	Putzer, et al., "Transfer RNA-mediated antitermination <i>in vitro</i> ", Nucleic Acids Research, 2002, Vol. 30, No. 14 pp. 3026-3033.
SW	AR Y	Wagar, et al., "The Glycyl-tRNA Synthetase of <i>Chlamydia trachomatis</i> ", Journal of Bacteriology, Sept. 1995, pp 5179-5185.
	AQ	
	AR	

Examiner:

Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP 609; draw line through citation if in conformance and not considered. Include copy of this form with next communication to applicant.

/Samuel Woolwine/ (10/06/2006)

PTO/SB/08B (08-03)

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/617,979
Filing Date	July 11, 2003
First Named Inventor	Henkin
Art Unit	1632
Examiner Name	Unknown
Attorney Docket Number	22727/04130

Sheet 2

of

2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	AA	SARSERO, ET AL., "A Bacillus subtilis operon containing genes of unknown function senses tRNA charging and regulates expression of the genes of tryptophan biosynthesis", PNAS,	
	AA	March 14, 2000, vol. 97, no. 6, pp. 2656-2661.	
	AB	DELORME, ET AL., "Regulation of Expression of the Lactococcus lactis Histidine Operon", Journal of Bacteriology, April 1999, p. 2026-2037.	

Examiner
Signature

/Samuel Woolwine/ (10/06/2006)

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

(Use as many sheets as necessary)

Sheet 1

of 2

Complete if Known

Application Number	10/617,979
Filing Date	July 11, 2003
First Named Inventor	Tina Henkin
Art Unit	1637
Examiner Name	Young J. Kim
Attorney Docket Number	22727.04130

[illegible][illegible]

/Samuel Woolwine/ (10/06/2006)

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/617,979
Filing Date	July 11, 2003
First Named Inventor	Tina Henkin
Art Unit	1637
Examiner Name	Young J. Kim
Attorney Docket Number	22727.04130

Sheet

2

of

2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
SW	1	International search report for PCT application number PCT/US03/21875.	
SW	2	GERDEMAN, et al, In vitro structure-function studies of teh Bacillus subtilis tyrS mRNA antiterminator: evidence, Nucleic Acids Research, Vol 30, No 4, pp 1065-1072, Feb 2002	
SW	3	YOUSEF, et al., tRNA requirement for glyQA antitermination: A new twist on tRNA, RNA, Vol. 9, pp. 1148-1156, May 2003.	
SW	4	GRUNDY, et al., tRNA-mediated transcription antitermination in vitro: Codon-anticodon pairing independent of the ribosome, PNAS, Vol 99, No 17, pp 11121-11126, August 2002.	
SW	5	PUTZER, et al., Transfer RNA-mediated antitermination in vitro, Nucleic Acids Research, Vol. 30, No. 14, pp. 3026-3033, 2002.	
SW	6	SASERO, et al., A Bacillus subtilis operon cntaining genes of unknown function senses tRNA trp charing and regulates expression, PNAS, Vol 97, No 6, pp 2656-2661, March 2000.	
SW	7	DELORME, et al., Regulation of Expression of the Lactococcus lactis Histidine Operon, Journal of Bacteriology, Vol. 181, No. 7, pp 2026-2037, April 1999.	

Examiner
Signature

/Samuel Woolwine/ (10/06/2006)

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.